

[54] **COMPOSITION FOR DETECTING KETONE BODIES AND METHOD OF PREPARATION**

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[21] Appl. No.: **438,063**

[22] Filed: **Nov. 1, 1982**

[51] Int. Cl.³ **G01N 33/64**

[52] U.S. Cl. **422/56; 427/2; 436/128**

[58] Field of Search **422/56, 57; 436/128, 436/130; 427/2**

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,880,590 4/1975 Ogawa et al. 422/56
4,147,514 4/1979 Magers et al. 422/56 X
4,184,850 1/1980 Wabenstein 422/56 X

FOREIGN PATENT DOCUMENTS

1153920 9/1963 Fed. Rep. of Germany 436/128

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[57] **ABSTRACT**

A composition, test means, method of making test means and process for the detection of ketone bodies in human fluids. The composition includes a chromogen and, discrete therefrom, a combination of a metal salt, a primary amine and a chelator for the metal. The composition may be in tablet form or in separately sequentially impregnated layers on a carrier. If the composition is in tablet form, the composition is a dry combination of the chromogen, the metal salt, primary amine acid and the chelator. If the test means is formed on a carrier as separately impregnated layers, the chromogen is impregnated onto the carrier, the impregnated carrier is then dried, and then the combination of the primary amine, metal salt and chelator in liquid form are impregnated over the dry chromogen and thereafter the impregnated carrier is dried. The chelator adds to the buffer capacity of the inventive composition, and the present composition, whether in tablet form or impregnated on a carrier has a high buffer capacity and is accurate over a wide range of acidity and alkalinity.

6 Claims, No Drawings